

IN THE CLAIMS:

Please amend the claims as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

31. (Currently Amended) A system comprising:
one or more processors; and
memory storing program instructions;
wherein the program instructions are executable by the one or more processors to:
store a replica of a data object;
store history information indicative of previous accesses to the replica of the data object; and
~~in response to receiving a write request to update the replica of the data object, select one or more operations to perform on the replica of the data object based on the history information, wherein the one or more operations selected based on the history information include one or more of:~~
receive a write request specifying particular data to write to the replica of the data object;
select one or more operations to perform on the replica of the data object in response to the write request, wherein the one or more operations are selected depending upon the history information, wherein the one or more operations are selected from a group of operations including:
writing the particular data specified by the write request to updating the
replica of the data object; and
marking the replica of the data object as stale.

32. (Currently Amended) The system of claim 31, wherein ~~selecting the one or more operations based on the history information comprises~~ the program instructions are further executable to:
analyze analyzing the history information to determine a number of accesses to the replica of the data object received within a first time period; [[and]]

wherein selecting the one or more operations comprises selecting to ~~update~~ write the particular data specified by the write request to the replica of the data object in response to determining that the number of accesses received within the first time period is greater than or equal to a threshold value.

33. (Currently Amended) The system of claim 31, wherein ~~selecting the one or more operations based on the history information comprises~~ the program instructions are further executable to:

analyze ~~analyzing~~ the history information to determine a number of accesses to the replica of the data object received within a first time period; [[and]]

wherein selecting the one or more operations comprises selecting to mark the replica of the data object as stale in response to determining that the number of accesses received within the first time period is less than a threshold value.

34. (Currently Amended) The system of claim 31,
wherein the replica of the data object includes a plurality of portions of data;
wherein the write request ~~to update the replica of the data object~~ comprises a write request to ~~update~~ write the particular data to a first portion of the plurality of portions of data;
~~wherein said updating the replica of the data object comprises updating the first portion of the plurality of portions of data;~~
wherein said marking the replica of the data object as stale comprises marking the first portion of the plurality of portions of data as stale without marking other portions of the plurality of portions of data as stale.

35. (Currently Amended) The system of claim 34, wherein ~~selecting the one or more operations based on the history information comprises~~ the program instructions are further executable to:

analyze ~~analyzing~~ the history information to determine a number of accesses to the first portion of the plurality of portions of data received within a first time period;

wherein selecting the one or more operations comprises:

selecting to ~~update~~ write the particular data specified by the write request to the first portion of the plurality of portions of data if the number of accesses received within the first time period is greater than or equal to a threshold value;

selecting to mark the first portion of the plurality of portions of data as stale if the number of accesses received within the first time period is less than the threshold value, wherein the first portion is marked as stale without marking other portions of the plurality of portions of data as stale.

36. (Previously Presented) The system of claim 31,
wherein the replica of the data object comprises a replica of a file.

37. (Currently Amended) A computer-readable storage medium storing program instructions executable to:

store a replica of a data object;

store history information indicative of previous accesses to the replica of the data object;

and

~~in response to receiving a write request to update the replica of the data object, select one or more operations to perform on the replica of the data object based on the history information, wherein the one or more operations selected based on the history information include one or more of:~~

receive a write request specifying particular data to write to the replica of the data object;

select one or more operations to perform on the replica of the data object in response to the write request, wherein the one or more operations are selected depending upon the history information, wherein the one or more operations are selected from a group of operations including:

writing the particular data specified by the write request to ~~updating~~ the replica of the data object; and

marking the replica of the data object as stale.

38. (Currently Amended) The computer-readable storage medium of claim 37, wherein ~~selecting the one or more operations based on the history information comprises~~ the program instructions are further executable to:

analyze ~~analyzing~~ the history information to determine a number of accesses to the replica of the data object received within a first time period; [[and]]

wherein selecting the one or more operations comprises selecting to ~~update~~ write the particular data specified by the write request to the replica of the data object in response to determining that the number of accesses received within the first time period is greater than or equal to a threshold value.

39. (Currently Amended) The computer-readable storage medium of claim 37, wherein ~~selecting the one or more operations based on the history information comprises~~ the program instructions are further executable to:

analyze ~~analyzing~~ the history information to determine a number of accesses to the replica of the data object received within a first time period; [[and]]

wherein selecting the one or more operations comprises selecting to mark the replica of the data object as stale in response to determining that the number of accesses received within the first time period is less than a threshold value.

40. (Currently Amended) The computer-readable storage medium of claim 37, wherein the replica of the data object includes a plurality of portions of data;

wherein the write request ~~to update the replica of the data object~~ comprises a write request to ~~update~~ write the particular data to a first portion of the plurality of portions of data;

~~wherein said updating the replica of the data object comprises updating the first portion of the plurality of portions of data;~~

wherein said marking the replica of the data object as stale comprises marking the first portion of the plurality of portions of data as stale without marking other portions of the plurality of portions of data as stale.

41. (Currently Amended) The computer-readable storage medium of claim 40, wherein ~~selecting the one or more operations based on the history information comprises~~ the program instructions are further executable to:

~~analyze~~ analyzing the history information to determine a number of accesses to the first portion of the plurality of portions of data received within a first time period;

wherein selecting the one or more operations comprises:

~~selecting to update~~ write the particular data specified by the write request to the first portion of the plurality of portions of data if the number of accesses received within the first time period is greater than or equal to a threshold value;

~~selecting to mark the first portion of the plurality of portions of data as stale if the number of accesses received within the first time period is less than the threshold value,~~ wherein the first portion is marked as stale without marking other portions of the plurality of portions of data as stale.

42. (Previously Presented) The computer-readable storage medium of claim 37, wherein the replica of the data object comprises a replica of a file.

43. (Currently Amended) A method comprising:

storing a replica of a data object;

storing history information indicative of previous accesses to the replica of the data object; and

~~in response to receiving a write request to update the replica of the data object, selecting one or more operations to perform on the replica of the data object based on the history information, wherein the one or more operations selected based on the history information include one or more of:~~

receiving a write request specifying particular data to write to the replica of the data object;

selecting one or more operations to perform on the replica of the data object in response to the write request, wherein the one or more operations are selected depending upon the history information, wherein the one or more operations are selected from a group of operations including:

writing the particular data specified by the write request to updating the replica of the data object; and
marking the replica of the data object as stale.

44. (Currently Amended) The method of claim 43, ~~wherein selecting the one or more operations based on the history information comprises~~ further comprising:

analyzing the history information to determine a number of accesses to the replica of the data object received within a first time period; [[and]]

wherein selecting the one or more operations comprises selecting to update write the particular data specified by the write request to the replica of the data object in response to determining that the number of accesses received within the first time period is greater than or equal to a threshold value.

45. (Currently Amended) The method of claim 43, ~~wherein selecting the one or more operations based on the history information comprises~~ further comprising:

analyzing the history information to determine a number of accesses to the replica of the data object received within a first time period; [[and]]

wherein selecting the one or more operations comprises selecting to mark the replica of the data object as stale in response to determining that the number of accesses received within the first time period is less than a threshold value.

46. (Currently Amended) The method of claim 43,
wherein the replica of the data object includes a plurality of portions of data;
wherein the write request ~~to update the replica of the data object~~ comprises a write request to update write the particular data to a first portion of the plurality of portions of data;
~~wherein said updating the replica of the data object comprises updating the first portion of the plurality of portions of data;~~

wherein said marking the replica of the data object as stale comprises marking the first portion of the plurality of portions of data as stale without marking other portions of the plurality of portions of data as stale.

47. (Currently Amended) The method of claim 46, ~~wherein selecting the one or more operations based on the history information comprises~~ further comprising:

analyzing the history information to determine a number of accesses to the first portion of the plurality of portions of data received within a first time period;

wherein selecting the one or more operations comprises:

selecting to ~~update~~ write the particular data specified by the write request to the first portion of the plurality of portions of data if the number of accesses received within the first time period is greater than or equal to a threshold value;

selecting to mark the first portion of the plurality of portions of data as stale if the number of accesses received within the first time period is less than the threshold value, wherein the first portion is marked as stale without marking other portions of the plurality of portions of data as stale.

48. (Previously Presented) The method of claim 43,
wherein the replica of the data object comprises a replica of a file.